



MI Travel Counts

Michigan's Statewide Household Travel Survey

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MDOT Model Improvement Program



Three phases:

Phase I: Research of modeling practices, development of new model specifications, and identification of required data. *Spring 2001 - Winter 2002*

Phase II: Data collection (MI Travel Counts)
November 2003 - August 2005

Phase III: Phase III a. - Updating current 4-step models with MI Travel Counts data.
Phase III b. - Research of Tour/Activity Based Models

Why do a survey?



- Travel data was last collected by MDOT in the 1960s - 1970s
- Using default data from the National Cooperative Highway Research Program (NCHRP)
- Suspect that Michigan's travel patterns differed from NCHRP data

Influences on Michigan's unique travel



- Automobile reliance
- Relatively low transit usage
- International border crossings
- Michigan is a peninsula state



Background



- Conduct survey to obtain data for the statewide model, small urban models, and TMA models
- Seven sample areas statewide
 - 2,040 household target per sample area for 14,000+ total.
 - Additional households in Detroit area thru separate SEMCOG contract

Background

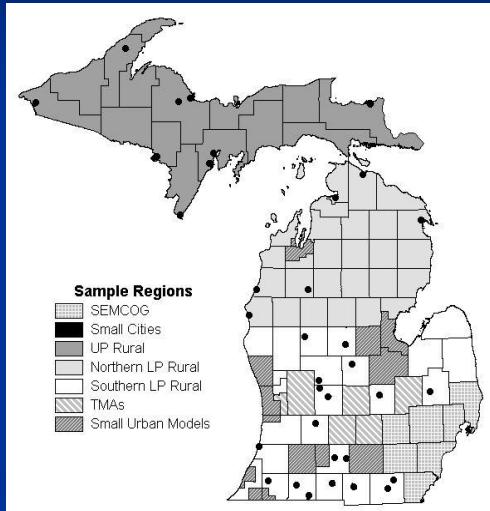


- 48 hours of travel information collected from all household members
- Travel days while school was in session April 2004 to February 2005
- Cost: \$2,075,000

Statewide Sample Design



- Seven sampling areas
 1. SEMCOG (S.E. Michigan & Detroit)
 2. TMA areas (200,000+ population)
 3. Small Urban Model areas (50,000 – 200,000 population)
 4. Small Cities (5,000-50,000 population)
 5. Rural Upper Peninsula
 6. Rural Northern Lower Peninsula
 7. Rural Southern Lower Peninsula
- Households randomly selected within the seven sampling areas



Stratification



- Households stratified by household size, number of workers and auto availability
- Cells collapsed if necessary based on auto sufficiency

Household Size = 2				Total
Workers	0	1	2+	
0	36	73	89	
1		75	121	
2		30	211	
3+				
Total	36	121	421	634

General Methodology



- Pre-notification letter to households
- Phone recruitment (land lines only)
- Mail out of survey materials
- Phone retrieval (preferred) or mail-in
- Optional Web retrieval for portion of study

General Methodology (con't)



- Incentives for some household types at end of study
- Data deliveries every 2,000 households
- Checks of data by prime, sub-consultant, and MDOT
- Retrospective long distance travel component
- PR firm for name, logo, Website, and PR campaign

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